

Definitive Technology®
The Leader in High-Performance Loudspeakers®

C/L/R 3000

Center/Left/Right Professional Audio Video Shielded Loudspeaker
with Built-In Powered Subwoofer

Owner's Manual

Congratulations on your purchase of the Definitive Technology C/L/R 3000 Shielded Center/Left/Right Audio Video Loudspeaker System. This revolutionary loudspeaker utilizes state-of-the-art components (cast-basket homopolymer-coned bass/ midrange drivers, moving coil ferrofluid-cooled dome high frequency radiator, cast-basket, long excursion subwoofer, infinite power source amplifier, uniphase crossover networks, etc.), a non-resonant monocoque cabinet and low diffraction construction in order to achieve the most lifelike sound possible in your listening room for many years to come.

The Definitive Technology C/L/R 3000 is a compact high-definition loudspeaker system designed for use in audio/video systems of the highest quality. Because of its low profile, wide range, high power handling and articulate clarity, it is ideal for use as a center channel in conjunction with all surround sound decoding systems, including Dolby ProLogic*, Dolby Digital*, Dolby EX*, DTS* and all 5.1, 6.1, and 7.1 surround sound systems. In addition, the C/L/R 3000 is ideal for use as an LCR (left, center, right main speaker) as well as a rear surround speaker in all surround sound decoding systems or as the main speakers in a high quality stereo system.

* Registered Trademark

Safety Precautions



CAUTION! To reduce the risk of electric shock and fire, do not remove the cover or back plate of this device. There are no user serviceable parts inside. Please refer all servicing to licensed service technicians. **Avis:** Risque de choc électrique, ne pas ouvrir.

CAUTION! The international symbol of a lightning bolt inside a triangle is intended to alert the user to uninsulated “dangerous voltage” within the device’s enclosure. The international symbol of an exclamation point inside a triangle is intended to alert the user to the presence of important operating, maintenance and servicing information in the manual accompanying the device.

CAUTION! To prevent electrical shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu’au fond.

CAUTION! To reduce the risk of electrical shock, do not expose this equipment to rain or moisture.

1. **Read Instructions**—All safety and operating instructions should be read before operating the device.
2. **Retain Instructions**—The safety and operating instructions should be retained for future reference.
3. **Heed Warnings**—All warnings on the device and in the operating instructions should be adhered to.
4. **Follow Instructions**—All operating and safety instructions should be followed.
5. **Water & Moisture**—The device should never be used in, on or near water for risk of fatal shock.
6. **Carts & Stands**—The device should only be used on carts or stands recommended by the manufacturer.
7. **Wall & Ceiling Mounting**—The device should be mounted on a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation**—The device should always be located in such a way that it maintains proper ventilation. It should never be placed in a built-in installation or anywhere that may impede the flow of air through its heat sink.
9. **Heat**—Never locate the device near heat sources such as radiators, floor registers, stoves or other heat-generating devices.
10. **Power Supply**—The device should only be connected to a power supply of the type described in the operating instructions or as marked on the device.
11. **Power Cord Protection**—Power cables should be routed so they are not likely to be stepped on or crushed by items placed on them or against them. Special attention should be paid to areas where the plug enters a socket or fused strip and where the cord exits the device.
12. **Cleaning**—The device should be cleaned in accordance with manufacturer’s instructions.
13. **Periods Of Non-Use**—The device should be unplugged when not being used for extended periods.
14. **Dangerous Entry**—Care should be taken that no foreign objects or liquids fall or are spilled inside the device.
15. **Damage Requiring Service**—The device should be serviced by licensed technicians when:
 - The plug or power supply cord has been damaged.
 - Objects have fallen or liquid spilled inside of the device.
 - The device has been exposed to moisture.
 - The device does not appear to be operating properly or exhibits a marked change in performance.
 - The device has been dropped or the cabinet becomes damaged.
16. **Service**—The device should always be serviced by licensed technicians. Only replacement parts specified by the manufacturer should be used. The use of unauthorized substitutions may result in fire, shock, or other hazards.

Unpacking Your C/L/R 3000

Please Inspect For Shipping Damage

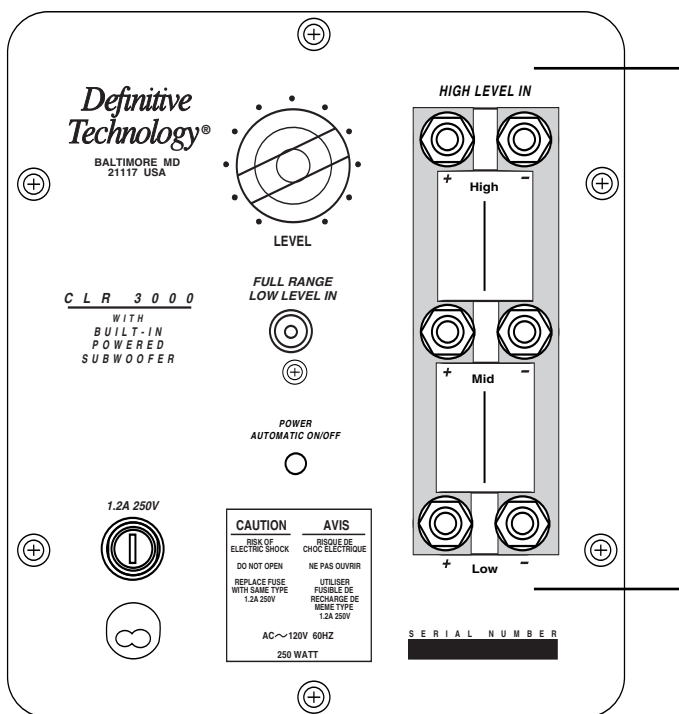
Each loudspeaker leaves our plant in perfect condition. Any visible or concealed damage most likely occurred in handling after it left our plant and should be reported at once to your Definitive dealer or the delivery company that delivered your loudspeaker. Please unpack your system carefully. Save all cartons and packing materials in case you move or need to ship your system. Record the serial number found on the back of the C/L/R 3000 in the appropriate place on your warranty card.

Speaker Break-in

Your C/L/R 3000s should sound good right out of the box; however, an extended break-in period of 40-60 hours or more of normal playing is required to reach full performance capability. Break-in allows the suspensions to work in and results in fuller bass, a more open “blossoming” midrange and smoother high-frequency reproduction.

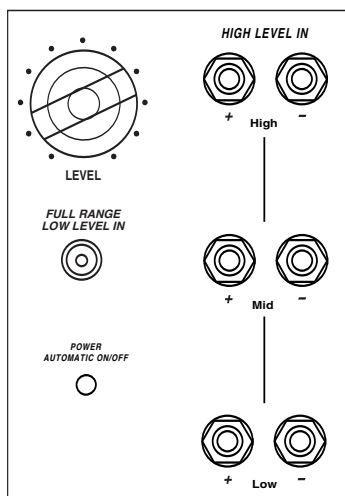
Visit us at www.definitivetech.com

Rear Panel



Gold Jumper

* This section of the rear panel will be shown on the connection diagrams.



Connecting Your Loudspeakers

Since in most cases the C/L/R 3000 will be used as a center channel, we will give hookup instructions as such. If you use C/L/R 3000s across the front (or a pair in stereo) simply hook up each C/L/R 3000 by repeating similar hook ups for the left and right channel C/L/R 3000s to their appropriate channel as for the center.

Connecting Each Speaker with One Pair of Speaker Wires Only

When the C/L/R 3000(s) are hooked up using simply one set of speaker wire per speaker (with no separate low-level input for the subwoofer section) a special circuit takes an infinitesimally small signal from the speaker level input and converts it to a low-level signal which then drives the subwoofer power amp.

With all the gold jumpers in place, (see diagram # 1) simply connect any of the red (+) terminals of the speaker to the red (+) terminal of the center channel speaker level outputs on your amplifier or receiver, and any of the black (-) terminals of each speaker to the black (-) terminal of the center speaker level outputs channel on your amplifier or receiver. It is essential that all the speakers (center, left, right and rears) be connected in the same way (in phase) to its own channel of the amplifier. If you experience a great lack of bass, it is likely that one speaker is out of phase with the other.

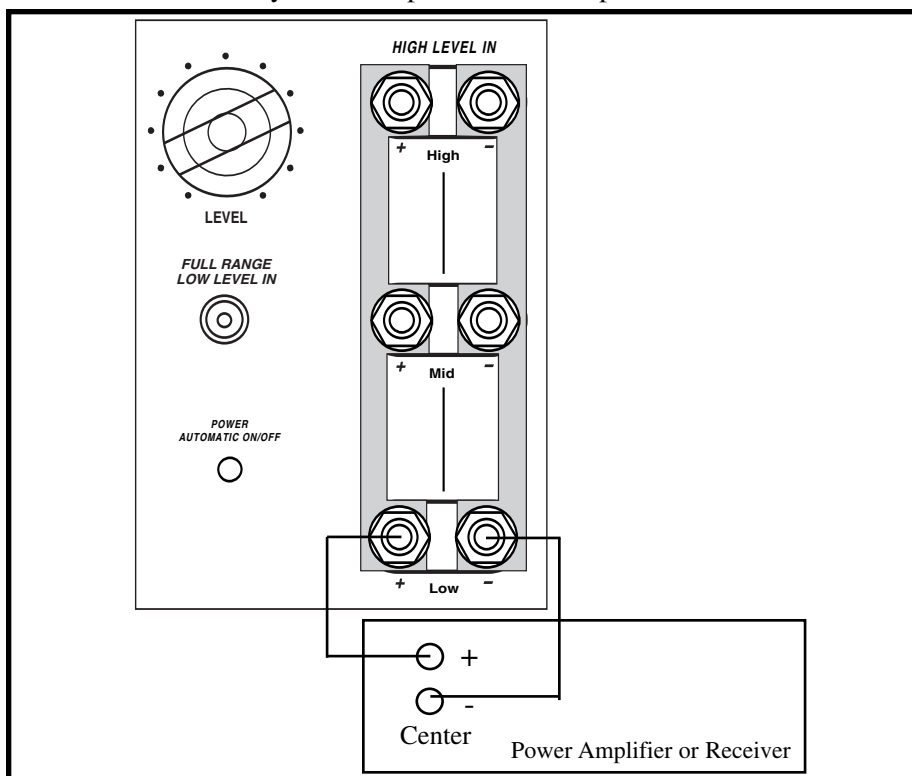


Diagram # 1: Connecting C/L/R 3000 with One Pair of Speaker Wires Only

Bi- or Tri-Wiring

The concept of bi- or tri-wiring is that higher sonic performance (greater inner detail, higher definition, increased transparency and improved depth) is achieved by utilizing two or three sets of wires to connect each loudspeaker to its respective channel of your amplifier or receiver.

If you choose this method of hookup, follow these instructions:

For bi-wiring: (See diagram # 2) Remove both the jumpers between the mid and high terminals on the speaker. Then take care to ensure that both the red (+) high and red (+) mid terminals of the speaker are connected to the red (+) terminal of the center channel of your amplifier (each using one conductor of each of the two sets of wires for the center channel) and that both the black (-) high and black (-) mid terminals of the your speaker are connected to the black (-) terminal of the center channel of your amplifier using the other conductor of each of the two sets of wires for the center channel. Utilize the same hookup procedure for the left and right channels if you are using C/L/R 3000s on these channels.

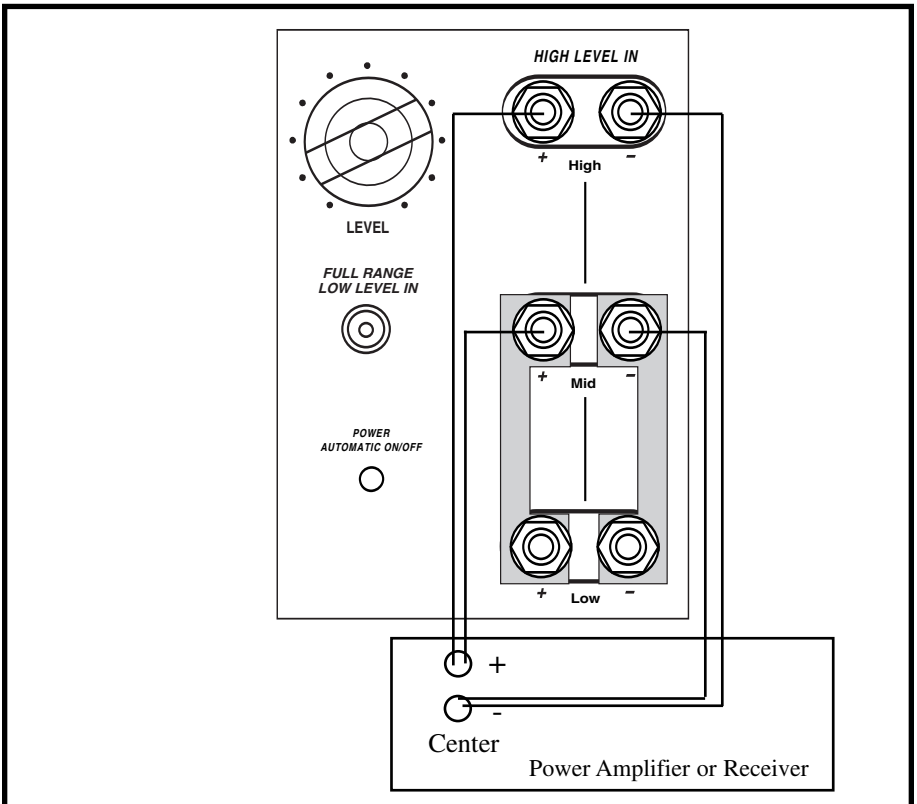


Diagram # 2: Bi-Wiring

For tri-wiring: (See diagram # 3) Remove all the gold jumpers on the speaker and wire with separate wires to each of the low, mid and high terminals going to the appropriate + or - terminal of its appropriate channel of your amplifier. It is critical that all + terminals on each speaker be connected to only the + terminal of its appropriate channel (center to center) on the amplifier and all - terminals only get connected to the - terminal of its appropriate channel on the amplifier. Please note, however, that higher performance will be achieved by running a separate full-range low-level signal to the subwoofer and bi-wiring as described on the previous page.

Usually if distortion is heard when the speakers are being driven at loud levels, it is caused by driving (turning up) the amplifier too loud and not by driving the speakers with more power than they can handle. Remember, most amplifiers put out their full-rated power well before the volume control is turned all the way up! If your speakers distort when you play them loud, turn down the amplifier or get a bigger amplifier.

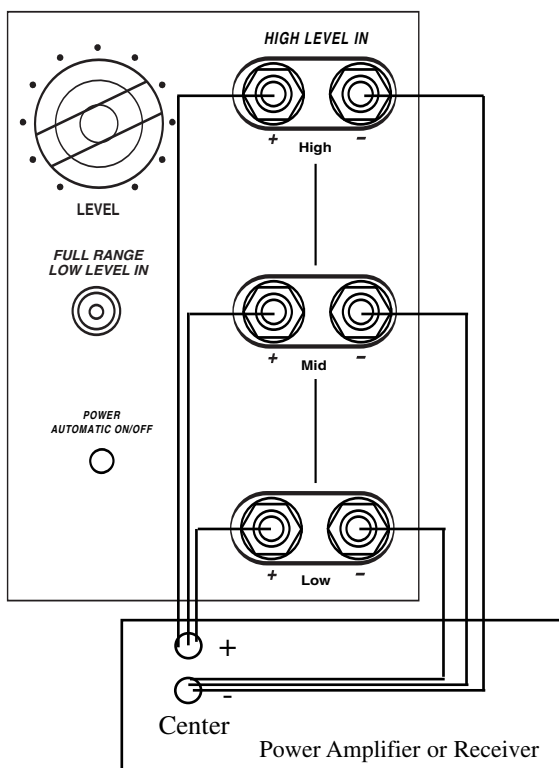


Diagram # 3: Tri-Wiring

Using the Full-Range Low-Level Input for Driving the Built-In Powered Subwoofer

Your C/L/R 3000(s) has a separate RCA input jack labeled “Full Range Low Level In” which may be used to drive the built-in powered subwoofer directly from your preamp or preamp section of your receiver (if you have center channel low level full-range output). **This input should be connected to a full-range center channel output from your pre-amp or decoder and not from “Subwoofer or LFE Out.”** Many experts feel that this method of hookup results in the clearest, tightest and deepest bass.

If you do not have two sets of center channel low-level full-range outputs, use a Y connector coming out of the center channel pre-out of your receiver or amp with one half of the Y going to the main center in of your receiver or amp and the other half going to the low-level input on your C/L/R 3000. Please note that not all receivers have a low-level full-range center channel output; so you may not be able to use this hookup method with your particular piece of electronics.

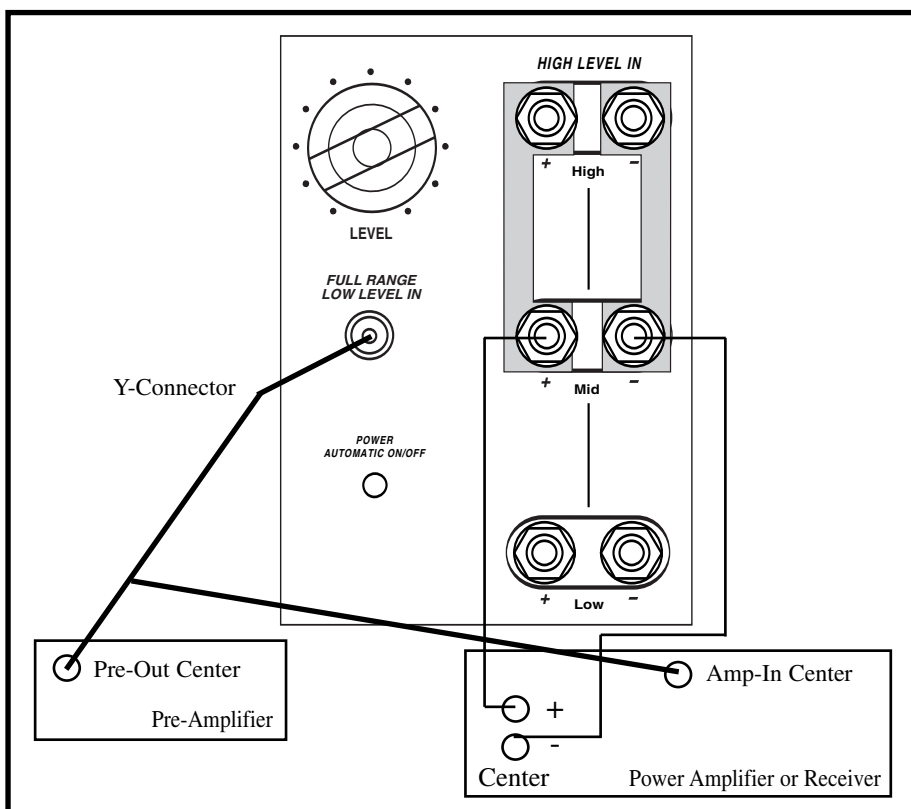


Diagram # 4: Using Full Range Low Level Input for Driving Built-In Powered Subwoofer

When you use this low-level input to the subwoofer, it is very important to disconnect (on the speaker(s)) the gold jumper going between the + (red) mid and low, and - (black) mid and low 5-way binding posts. (There should be nothing connected to the 5-way binding posts labeled low.) Hook up your high (speaker) level signal as you would normally between your center channel amplifier terminals to the corresponding center speaker + mid terminal and - mid terminal. Do the same for all your speakers. (See diagram # 4.)

If you wish to bi-wire your speaker(s) (see diagram # 5) as well as use the low-level inputs (**if you want absolutely the ultimate hookup method, this is it**), simply remove all gold jumpers on the speaker(s) and run separate sets of speaker cable to the mid and high terminals of the speaker(s) as described under bi-wiring as well as a separate RCA low-level cable from the center channel low-level output on your receiver, pre-amp or decoder into the full-range low-level input, as described previously. Remember, when using this low-level subwoofer input, there should never be any wire or jumper connected to either of the 5-way binding posts labeled “Low” on either speaker.

In order to achieve optimum performance, maintain perfect driver blending and take full advantage of the benefits of having a built-in subwoofer, it is important, if you are using low-level “Full Range Inputs” to drive the subwoofer, that you use full range center channel low-level signals to feed this input, *NOT, REPEAT, NOT* SUBWOOFER LFE OUTPUT SIGNALS.

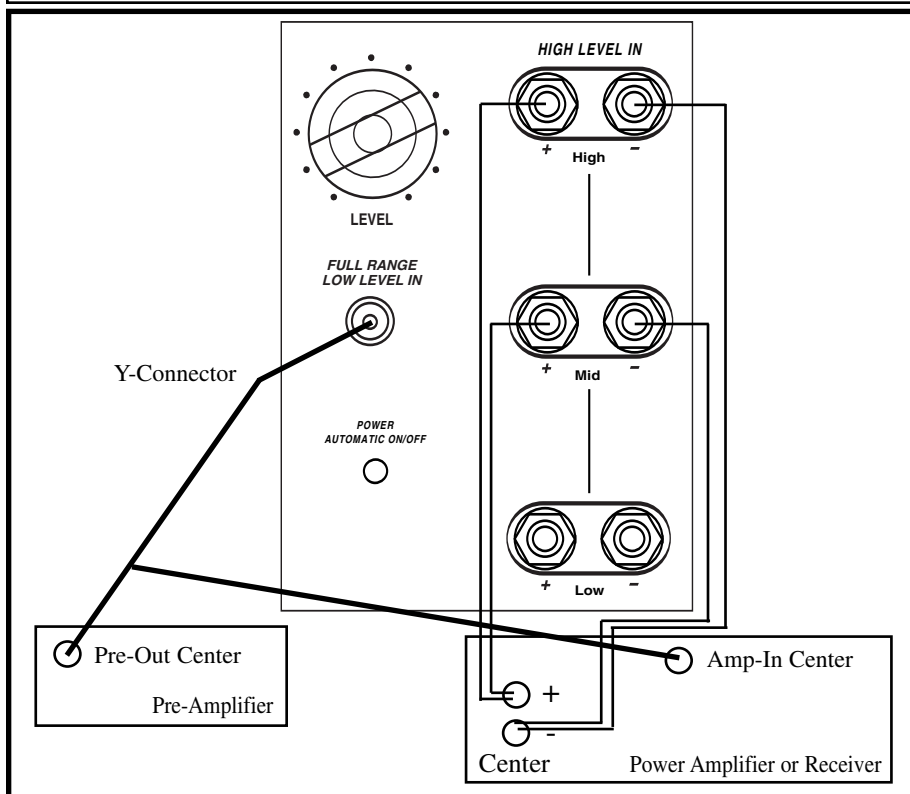


Diagram # 5: Bi-Wiring Speakers and Using Low-Level Input

Using Your C/L/R 3000(s) in a Dolby Digital AC-3 System

Using your C/L/R 3000 as a Center Channel in a Dolby Digital System

When using your C/L/R 3000 as a center channel in a Dolby Digital system simply hook up the C/L/R 3000 to the center channel output of your system as described in the preceding section. Do not hook up a subwoofer/LFE output to the low-level input on your C/L/R 3000. The subwoofer in the C/L/R 3000 is not, in most cases, designed to be the main dedicated LFE .1 main subwoofer in a Dolby Digital system. It is designed to extend the frequency response and dynamic range of the center channel speaker. Set the center channel bass management to “Large” center channel.

Using Using your C/L/R 3000 as Left and Right Main Speakers in a Dolby Digital System

If you are using C/L/R 3000 also as the main left and right speakers in a Dolby Digital system, set the bass management system for “Large” left and right main speaker and “No” subwoofer. This will send the .1 discrete bass subwoofer signal into the left and right main channels and into the subwoofers in your left and right channel C/L/R 3000s.

Setting Bass and Treble Controls on Your Receiver or Amplifier

Normally we recommend that you set the “Bass” and “Treble” controls on flat or 0 dB. This will give you the most linear and natural sound. If you want more bass, raise the subwoofer’s “Level” control on your C/L/R 3000, keeping in mind that even a little turn of the knob can make a big difference in the sound. Also, if your amplifier or receiver has a graphic equalizer, we recommend that you leave it flat. The reason for this is that we have spoken with many consumers about what they thought were improperly sounding speakers when in fact the problem was misadjusted tone controls. When in doubt, leave them flat; this almost always sounds the best.

Powering Up the Active Subwoofer Section

Your C/L/R 3000(s) contains a built-in, active powered subwoofer section as well as an electronic crossover; so each C/L/R 3000 must be plugged into an electrical socket of the appropriate voltage (as indicated on the back of your unit) using the plug on the end of the black cord attached to the electronics module on the back of the loudspeaker. The C/L/R 3000 has a special circuit which automatically turns the powered subwoofer section on when a signal is fed to the loudspeaker and does not require an on-off switch. The red LED on the back panel will light up when a signal is sensed and the amplifier turns on. Please note that after the cessation of a signal, it may take up to an hour for the amplifier to actually turn off.

Setting Your C/L/R 3000’s Low-Frequency Level Control

Your C/L/R 3000 has a level control for the electronic crossover which allows you to perfectly tune the output level of the powered low frequency subwoofer section to match your room as well as to fulfill your own personal listening preferences. Please note that there are no controls to vary the crossover points or phase because these have been factory set to provide perfect blending (a major performance benefit of this innovative product). **When using the speaker wire input, we suggest beginning with the level control set at approximately 10 o’clock.** However, when using the “Full Range Low-Level In” with the jumpers removed between “Mid” and “Low,” the level control starting point position may vary and you must experiment for optimum setting. Set the level control so that the sound is most pleasing to you. In general, when used as a center channel, the C/L/R 3000 subwoofer should not be turned up excessively high to add more “room shaking level bass” but should be kept in proper balance with the upper bass/midrange drivers in order to achieve properly balanced high-impact full-range center channel presentation.

If you use C/L/R 3000 as left and right main front speakers, normally the level control of the left speaker will be set the same as the level control of the right speaker. However, these controls can also be set differently on the two speakers in order to allow you to vary the response of left and right speakers separately to compensate for variations and asymmetrical positioning of the left and right speakers in your room (i.e., when one is closer to a side wall or corner, etc.) if this is how you must set them up. This is a very unique and useful feature which allows you much greater flexibility in loudspeaker placement, as well as the ability to optimize what could otherwise be difficult placement situations.

VERY IMPORTANT: SETTING CHANNEL BALANCE AND BASS MANAGEMENT SYSTEMS

Dolby Digital and Dolby ProLogic systems and decoders have a critical channel balancing procedure for the left and right front speakers, center channel, rears and subwoofer (if it is hooked up through the “LFE or Sub Out” low-level connection) which must be followed if the system is to perform properly. We have spoken with many system users with problems relating to the overall sound of their system which could be clearly traced back to improper system balance.

Also note that Dolby Digital decoders have bass management systems (systems which direct the bass to the various channels) which vary from unit to unit. This bass management system must also be properly adjusted. If you are using large rear surround speakers with very extended low-frequency response—such as another pair of C/L/R 3000s—set the rear channels of your decoder’s bass management system to “Large.” If not, set them to “Small.” Center channel should be set on “Large.” If you are using C/L/R 3000 as left and right main speakers without an additional subwoofer, left and right front channels should be set on “Large” and the bass management system set for “No” subwoofer. If you have an additional separate subwoofer set bass management system to “Yes” subwoofer.

Positioning the C/L/R 3000s in Your Room

For Center Channel Use

The C/L/R 3000, when used singly for center channel use, can be placed horizontally or vertically above or below the TV. When used as center channel pairs, the C/L/R 3000s should be placed on either side of the TV, or above and below it.

For Main Left, Right (LCR) and Rear Surround Use

The C/L/R 3000 is a high quality, full-range speaker system which, in addition to its use as a center channel in home theater systems, can also be used as a left and right main speaker (LCR) in all home theater systems as well as conventional two channel audio systems. When the C/L/R 3000 is used as a left and right main speaker, it may be positioned either vertically or horizontally. When the C/L/R 3000 is used as a rear surround speaker, it may also be positioned vertically or horizontally.

Installing the Logo

Because the C/L/R 3000 can be used either vertically or horizontally, the logo is supplied separately. Holes are provided for installation when the speaker is used horizontally. These are located under the grill cloth at the center of the lower edge at the front of the speaker approximately $\frac{1}{16}$ " up from the edge and $1\frac{1}{2}$ " apart. Locate the logo over these two holes and gently tap it in through the grill cloth.

Installing the Feet/Angling Device

The C/L/R 3000 is supplied with brass inserts designed to go into the bottom of the speaker to hold adjustable feet which hold the speaker above the surface it is placed on as well as give you the option of angling the speaker up or down to point directly at the listeners. Install three of these inserts in the bottom of the speakers. There are predrilled holes on the bottom of the speaker under the grill cloth (when the speaker is positioned horizontally). Simply locate the holes. Two holes are 2" back from the front and 12" apart. You also have a choice for the rear hole depending on the depth of the surface you will place the speaker on. They are located along the center line going from the front and the back of the speaker on the bottom. Then feel for them and select one of these holes. Gently tap the inserts in through the grill cloth and screw the feet in.

Technical Assistance

It is our pleasure to offer assistance if you have any questions regarding your C/L/R 3000s or their setup. Please contact your nearest Definitive Technology dealer or contact us directly at 410-363-7148.

Service

Service and warranty work on your Definitive loudspeakers will normally be performed by your local Definitive Technology dealer. If, however, you wish to return the speaker to us, please contact us first, describing the problem and requesting authorization as well as the location of the nearest factory service center. **Please note that the address given in this booklet is the address of our offices only. Under no circumstances should loudspeakers be shipped to our offices or returned without contacting us first and obtaining return authorization.**

Definitive Technology Offices
11433 Cronridge Dr.
Owings Mills, Maryland 21117
Phone: 410-363-7148

C/L/R 3000 Specifications

Dimensions	25"W x 16"D x 8 ⁵ / ₁₆ "H
Frequency Response	19 Hz – 30 kHz
Efficiency	91 dB
Nominal Impedance	Compatible with 8 ohms outputs
Driver Complement	Two 6 ¹ / ₂ " cast-magnesium basket bass/midrange drivers, and a 1" pure aluminum dome in D'Appolito Array. Plus a cast-basket long-throw 10" powered subwoofer
Recommended Associated Amplification	20 – 400 watts/channel
Built-in Subwoofer Power Amplifier	150 watts

Limited Warranty: 5-Years for Drivers and Cabinets, 3-Years for Electronic Components

Definitive Technology warrants to the original retail purchaser only that this Definitive Technology Loudspeaker Product (the "Product") will be free from defects in materials and workmanship for a period of five (5) years covering the drivers and cabinets, and three (3) years for the electronic components from the date of the original purchase from a Definitive Technology Authorized Dealer. However, this warranty will automatically terminate prior to the expiration of five (5) years for the drivers and cabinets and three (3) years for the electronic components if the original retail purchaser sells or otherwise transfers the Product to any other party. The original retail purchaser shall hereinafter be referred to as "you." Defective Products must be shipped, together with proof of date of purchase, prepaid insured to the Authorized Dealer from whom you purchased the Product, or to the nearest factory service center. Product(s) must be shipped in the original shipping container or its equivalent; in any case the risk of loss or damage in transit is to be borne by you. If, upon examination at the Factory or a Definitive Technology Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this Warranty period, Definitive Technology or the Definitive Technology Authorized Dealer will, at its option, repair or replace this Product at no additional charge, except as set forth below. All replaced parts and Product(s) become the property of Definitive Technology. Product(s) replaced or repaired under this Warranty will be returned to you, within a reasonable time, freight collect.

This Warranty does not include service or parts to repair damage caused by accident, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage in excess of the rated maximum of the unit, cosmetic appearance of cabinetry not directly attributable to defects in materials or workmanship, or service, or repair or modification of the Product which has not been authorized by Definitive Technology. Definitive Technology makes no Warranty with respect to its Products purchased from dealers or outlets other than Definitive Technology Authorized Dealers. This Warranty is in lieu of all other expressed Warranties. If this Product is defective in material or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above. In no event will Definitive Technology be liable to you for any incidental or consequential damages arising out of the use or inability to use the Product, even if Definitive Technology or a Definitive Technology Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation may not apply to you.

All implied warranties on the Product are limited to the duration of this expressed Warranty. Some states do not allow limitation on how long an implied Warranty lasts, so the above limitations may not apply to you. This Warranty gives you specific legal rights, and you also may have other rights which vary from state to state.



This product complies with the essential requirements of the EMC directive 89/336/EEC.